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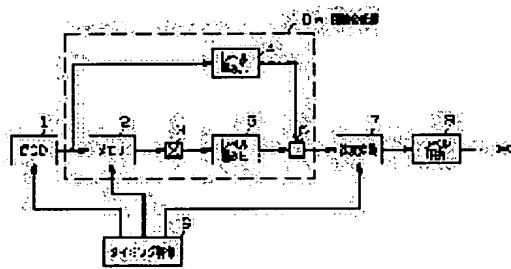
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(54) IMAGE PICKING UP AND SYNTHESIZING METHOD AND IMAGE PICKUP DEVICE WITH HIGH DYNAMIC RANGE**(57)Abstract:**

PURPOSE: To output an image in which a signal level can be continued by using the image whose S/H can be kept satisfactorily, and performing synthesis smoothly as changing weight at the switching part of the image.

CONSTITUTION: A signal with short charge accumulation time out of the signals read out from a CCD 1 is recorded on memory 2, and it is read out from the memory 2 at almost the same timing as that when the signal with long charge accumulation time is read out from the CCD 1. A read out signal is multiplied by a constant by using a multiplier 3. Thence, the weight in accordance with the signal level is attached on it by a level weighing means H5. The weight is also attached on the signal with long charge accumulation time by a level weighing means L4. In such a manner, the weight is attached on image signals with different dynamic ranges, and they are added by an adder 6, and are synthesized into one image. A part with satisfactory state of the image is extracted by applying the weight, and the image with high dynamic range can be generated. The scanning speed of a synthesized image is converted so as to conform to the scan of a reference television signal.

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